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02-28-02

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

|                        |                                            |
|------------------------|--------------------------------------------|
| Attorney Docket No.    | 102781                                     |
| First Inventor         | William Herbert Sahm III                   |
| Title                  | METHOD AND APPARATUS FOR DETECTING CURRENT |
| Express Mail Label No. | EL 752187659 US                            |

 JC978 U.S. PTO  
02/27/02

A

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1.  Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original, and a duplicate for fee processing)

2.  Application claims small entity status.  
See 37 CFR 1.27

3.  Specification [ Total Pages 17 ]  
(Preferred arrangement set forth below)

- Descriptive title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4.  Drawing(s) (35 USC 113) [ Total Sheets 4 ]

5. Oath or Declaration [ Total Pages ]

- a.  Newly executed (original or copy)
- b.  Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)
- i.  **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

6.  Application Data Sheet. See 37 CFR 1.76

**ADDRESS TO:** Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7.  CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission  
(If applicable, all necessary)

- a.  Computer Readable Form (CRF)
- b. Specification Sequence Listing on:
  - i.  CD-ROM or CD-R (2 copies); or
  - ii.  Paper
- c.  Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9.  Assignment Papers (cover sheet & document(s))

10.  37 CFR 3.73(b) Statement  
(when there is an assignee)  Power of Attorney

11.  English Translation Document (if applicable)

12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS Citations

13.  Preliminary Amendment

14.  Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)

15.  Certified Copy of Priority Document(s)  
(If foreign priority is claimed)

16.  Nonpublication Request under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.

17.  Other: Certificate of Express Mail; Declaration and Power of Attorney (for identification of inventors only)

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation       Divisional       Continuation-in-part (CIP)      of prior application No.: \_\_\_\_\_ /

Prior application information:

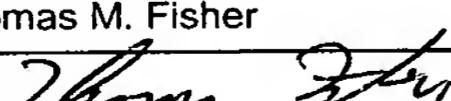
Examiner:

Group/Art Unit:

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**

|                                                            |                                                   |           |                |                                                                     |                    |
|------------------------------------------------------------|---------------------------------------------------|-----------|----------------|---------------------------------------------------------------------|--------------------|
| <input type="checkbox"/> Customer Number or Bar Code Label | (Insert Custom No. or Attach bar code label here) |           |                | or <input checked="" type="checkbox"/> Correspondence address below |                    |
| Name                                                       | John S. Beulick                                   |           |                |                                                                     |                    |
| Address                                                    | Armstrong Teasdale LLP                            |           |                |                                                                     |                    |
|                                                            | One Metropolitan Sq., Suite 2600                  |           |                |                                                                     |                    |
| City                                                       | St. Louis                                         | State     | Missouri       | Zip Code                                                            | 63102              |
| Country                                                    | US                                                | Telephone | (314) 621-5070 |                                                                     | Fax (314) 621-5065 |

|                   |                                                                                      |                                   |        |                   |
|-------------------|--------------------------------------------------------------------------------------|-----------------------------------|--------|-------------------|
| Name (Print/type) | Thomas M. Fisher                                                                     | Registration No. (Attorney/Agent) | 47,564 |                   |
| Signature         |  |                                   | Date   | February 27, 2002 |

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Office, Patent and trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

 102 U.S.P.T.O.  
02/27/02

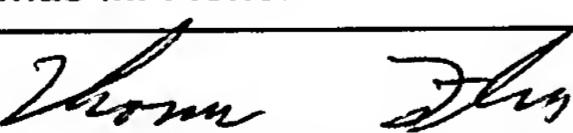
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# FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

| Complete If Known       |  |                          |                        |
|-------------------------|--|--------------------------|------------------------|
| Application Number      |  |                          |                        |
| Filing Date             |  |                          |                        |
| First Named Inventor    |  | William Herbert Sahm III |                        |
| Group Art Unit          |  |                          |                        |
| Examiner Name           |  |                          |                        |
| TOTAL AMOUNT OF PAYMENT |  | (\$ 860.00)              | Attorney Docket Number |
|                         |  | 102781                   |                        |

| METHOD OF PAYMENT (check one)                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |                            |                      | FEE CALCULATION (continued)                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| <p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:</p> <p>Deposit Account Number <input type="text" value="01-2384"/></p> <p>Deposit Account Name <input type="text"/></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17</p> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</p> |                      |                            |                      | <p>3. ADDITIONAL FEES</p> <table border="1"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td><input type="text"/></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge-late provisional filing fee or cover sheet</td><td><input type="text"/></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td><input type="text"/></td></tr> <tr><td>147</td><td>2520</td><td>147</td><td>2520</td><td>For filing a request for ex parte reexamination</td><td><input type="text"/></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td><input type="text"/></td></tr> <tr><td>113</td><td>1840*</td><td>113</td><td>1840*</td><td>Requesting publication of SIR after Examiner action</td><td><input type="text"/></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td><input type="text"/></td></tr> <tr><td>116</td><td>400</td><td>216</td><td>200</td><td>Extension for reply within second Month</td><td><input type="text"/></td></tr> <tr><td>117</td><td>920</td><td>217</td><td>460</td><td>Extension for reply within third month</td><td><input type="text"/></td></tr> <tr><td>118</td><td>1440</td><td>218</td><td>720</td><td>Extension for reply within fourth month</td><td><input type="text"/></td></tr> <tr><td>128</td><td>1960</td><td>228</td><td>980</td><td>Extension for reply within fifth month</td><td><input type="text"/></td></tr> <tr><td>119</td><td>320</td><td>219</td><td>160</td><td>Notice of Appeal</td><td><input type="text"/></td></tr> <tr><td>120</td><td>320</td><td>220</td><td>160</td><td>Filing a brief in support of an appeal</td><td><input type="text"/></td></tr> <tr><td>121</td><td>280</td><td>221</td><td>140</td><td>Request for oral hearing</td><td><input type="text"/></td></tr> <tr><td>138</td><td>1510</td><td>138</td><td>1510</td><td>Petition to institute a public use proceeding</td><td><input type="text"/></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td><input type="text"/></td></tr> <tr><td>141</td><td>1280</td><td>241</td><td>640</td><td>Petition to revive - unintentional</td><td><input type="text"/></td></tr> <tr><td>142</td><td>1280</td><td>242</td><td>640</td><td>Utility issue fee (or reissue)</td><td><input type="text"/></td></tr> <tr><td>143</td><td>460</td><td>243</td><td>230</td><td>Design issue fee</td><td><input type="text"/></td></tr> <tr><td>144</td><td>620</td><td>244</td><td>310</td><td>Plant issue fee</td><td><input type="text"/></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td><input type="text"/></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td><input type="text"/></td></tr> <tr><td>126</td><td>180</td><td>126</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td><input type="text"/></td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td><input type="text"/></td></tr> <tr><td>146</td><td>740</td><td>246</td><td>370</td><td>Filing a submission after a final rejection (37 CFR 1.129(a))</td><td><input type="text"/></td></tr> <tr><td>149</td><td>740</td><td>249</td><td>370</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td><input type="text"/></td></tr> <tr><td>179</td><td>740</td><td>279</td><td>370</td><td>Request for Continued Examination (RCE)</td><td><input type="text"/></td></tr> <tr><td>169</td><td>900</td><td>169</td><td>900</td><td>Request for expedited examination of a design application</td><td><input type="text"/></td></tr> <tr><td colspan="6">Other fee (specify) _____</td></tr> <tr> <td colspan="4"></td> <td>*Reduced by Basic Filing Fee Paid</td> <td>SUBTOTAL (3)</td> <td>0.00</td> </tr> </tbody> </table> |                      |      |  | Large Entity Fee Code (\$) | Entity Fee Code (\$) | Small Entity Fee Code (\$) | Entity Fee Code (\$) | Fee Description | Fee Paid | 105 | 130 | 205 | 65 | Surcharge - late filing fee or oath | <input type="text"/> | 127 | 50 | 227 | 25 | Surcharge-late provisional filing fee or cover sheet | <input type="text"/> | 139 | 130 | 139 | 130 | Non-English specification | <input type="text"/> | 147 | 2520 | 147 | 2520 | For filing a request for ex parte reexamination | <input type="text"/> | 112 | 920* | 112 | 920* | Requesting publication of SIR prior to Examiner action | <input type="text"/> | 113 | 1840* | 113 | 1840* | Requesting publication of SIR after Examiner action | <input type="text"/> | 115 | 110 | 215 | 55 | Extension for reply within first month | <input type="text"/> | 116 | 400 | 216 | 200 | Extension for reply within second Month | <input type="text"/> | 117 | 920 | 217 | 460 | Extension for reply within third month | <input type="text"/> | 118 | 1440 | 218 | 720 | Extension for reply within fourth month | <input type="text"/> | 128 | 1960 | 228 | 980 | Extension for reply within fifth month | <input type="text"/> | 119 | 320 | 219 | 160 | Notice of Appeal | <input type="text"/> | 120 | 320 | 220 | 160 | Filing a brief in support of an appeal | <input type="text"/> | 121 | 280 | 221 | 140 | Request for oral hearing | <input type="text"/> | 138 | 1510 | 138 | 1510 | Petition to institute a public use proceeding | <input type="text"/> | 140 | 110 | 240 | 55 | Petition to revive - unavoidable | <input type="text"/> | 141 | 1280 | 241 | 640 | Petition to revive - unintentional | <input type="text"/> | 142 | 1280 | 242 | 640 | Utility issue fee (or reissue) | <input type="text"/> | 143 | 460 | 243 | 230 | Design issue fee | <input type="text"/> | 144 | 620 | 244 | 310 | Plant issue fee | <input type="text"/> | 122 | 130 | 122 | 130 | Petitions to the Commissioner | <input type="text"/> | 123 | 50 | 123 | 50 | Petitions related to provisional applications | <input type="text"/> | 126 | 180 | 126 | 180 | Submission of Information Disclosure Stmt | <input type="text"/> | 581 | 40 | 581 | 40 | Recording each patent assignment per property (times number of properties) | <input type="text"/> | 146 | 740 | 246 | 370 | Filing a submission after a final rejection (37 CFR 1.129(a)) | <input type="text"/> | 149 | 740 | 249 | 370 | For each additional invention to be examined (37 CFR 1.129(b)) | <input type="text"/> | 179 | 740 | 279 | 370 | Request for Continued Examination (RCE) | <input type="text"/> | 169 | 900 | 169 | 900 | Request for expedited examination of a design application | <input type="text"/> | Other fee (specify) _____ |  |  |  |  |  |  |  |  |  | *Reduced by Basic Filing Fee Paid | SUBTOTAL (3) | 0.00 |
| Large Entity Fee Code (\$)                                                                                                                                                                                                                                                                                                                                                                                                                                       | Entity Fee Code (\$) | Small Entity Fee Code (\$) | Entity Fee Code (\$) | Fee Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Fee Paid             |      |  |                            |                      |                            |                      |                 |          |     |     |     |    |                                     |                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |                      |     |     |     |     |                                        |                      |     |     |     |     |                          |                      |     |      |     |      |                                               |                      |     |     |     |    |                                  |                      |     |      |     |     |                                    |                      |     |      |     |     |                                |                      |     |     |     |     |                  |                      |     |     |     |     |                 |                      |     |     |     |     |                               |                      |     |    |     |    |                                               |                      |     |     |     |     |                                           |                      |     |    |     |    |                                                              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| 105                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 130                  | 205                        | 65                   | Surcharge - late filing fee or oath                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 127                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 50                   | 227                        | 25                   | Surcharge-late provisional filing fee or cover sheet                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 139                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 130                  | 139                        | 130                  | Non-English specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |      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| 147                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2520                 | 147                        | 2520                 | For filing a request for ex parte reexamination                                                                                                                                                                                                                                                                                                                                                                                                                                          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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |                      |     |     |     |     |                                        |                      |     |     |     |     |                          |                      |     |      |     |      |                                               |                      |     |     |     |    |                                  |                      |     |      |     |     |                                    |                      |     |      |     |     |                                |                      |     |     |     |     |                  |                      |     |     |     |     |                 |                      |     |     |     |     |                               |                      |     |    |     |    |                                               |                      |     |     |     |     |                                           |                      |     |    |     |    |                                                                            |                      |     |     |     |     |                                                               |                      |     |     |     |     |                                                                |                      |     |     |     |     |                                         |                      |     |     |     |     |                                                           |                      |                           |  |  |  |  |  |  |  |  |  |                                   |              |      |
| 112                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 920*                 | 112                        | 920*                 | Requesting publication of SIR prior to Examiner action                                                                                                                                                                                                                                                                                                                                                                                                                                   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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |                      |     |     |     |     |                                        |                      |     |     |     |     |                          |                      |     |      |     |      |                                               |                      |     |     |     |    |                                  |                      |     |      |     |     |                                    |                      |     |      |     |     |                                |                      |     |     |     |     |                  |                      |     |     |     |     |                 |                      |     |     |     |     |                               |                      |     |    |     |    |                                               |                      |     |     |     |     |                                           |                      |     |    |     |    |                                                                            |                      |     |     |     |     |                                                               |                      |     |     |     |     |                                                                |                      |     |     |     |     |                                         |                      |     |     |     |     |                                                           |                      |                           |  |  |  |  |  |  |  |  |  |                                   |              |      |
| 113                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1840*                | 113                        | 1840*                | Requesting publication of SIR after Examiner action                                                                                                                                                                                                                                                                                                                                                                                                                                      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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |      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| 115                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 110                  | 215                        | 55                   | Extension for reply within first month                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |                      |     |     |     |     |                                        |                      |     |     |     |     |                          |                      |     |      |     |      |                                               |                      |     |     |     |    |                                  |                      |     |      |     |     |                                    |                      |     |      |     |     |                                |                      |     |     |     |     |                  |                      |     |     |     |     |                 |                      |     |     |     |     |                               |                      |     |    |     |    |                                               |                      |     |     |     |     |                                           |                      |     |    |     |    |                                                                            |                      |     |     |     |     |                                                               |                      |     |     |     |     |                                                                |                      |     |     |     |     |                                         |                      |     |     |     |     |                                                           |                      |                           |  |  |  |  |  |  |  |  |  |                                   |              |      |
| 116                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 400                  | 216                        | 200                  | Extension for reply within second Month                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |      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| 117                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 920                  | 217                        | 460                  | Extension for reply within third month                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |      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| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1440                 | 218                        | 720                  | Extension for reply within fourth month                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |      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| 128                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1960                 | 228                        | 980                  | Extension for reply within fifth month                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |      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| 119                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 320                  | 219                        | 160                  | Notice of Appeal                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |      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| 120                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 320                  | 220                        | 160                  | Filing a brief in support of an appeal                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |      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              |                      |     |     |     |     |                                                               |                      |     |     |     |     |                                                                |                      |     |     |     |     |                                         |                      |     |     |     |     |                                                           |                      |                           |  |  |  |  |  |  |  |  |  |                                   |              |      |
| 121                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 280                  | 221                        | 140                  | Request for oral hearing                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |                      |     |     |     |     |                                        |                      |     |     |     |     |                          |                      |     |      |     |      |                                               |                      |     |     |     |    |                                  |                      |     |      |     |     |                                    |                      |     |      |     |     |                                |                      |     |     |     |     |                  |                      |     |     |     |     |                 |                      |     |     |     |     |                               |                      |     |    |     |    |                                               |                      |     |     |     |     |                                           |                      |     |    |     |    |                                                              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| 138                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1510                 | 138                        | 1510                 | Petition to institute a public use proceeding                                                                                                                                                                                                                                                                                                                                                                                                                                            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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |                      |     |     |     |     |                                        |                      |     |     |     |     |                          |                      |     |      |     |      |                                               |                      |     |     |     |    |                                  |                      |     |      |     |     |                                    |                      |     |      |     |     |                                |                      |     |     |     |     |                  |                      |     |     |     |     |                 |                      |     |     |     |     |                               |                      |     |    |     |    |                                               |                      |     |     |     |     |                                           |                      |     |    |     |    |                                                                            |                      |     |     |     |     |                                                               |                      |     |     |     |     |                                                                |                      |     |     |     |     |                                         |                      |     |     |     |     |                                                           |                      |                           |  |  |  |  |  |  |  |  |  |                                   |              |      |
| 140                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 110                  | 240                        | 55                   | Petition to revive - unavoidable                                                                                                                                                                                                                                                                                                                                                                                                                                                         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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |      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| 141                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1280                 | 241                        | 640                  | Petition to revive - unintentional                                                                                                                                                                                                                                                                                                                                                                                                                                                       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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |                      |     |     |     |     |                                        |                      |     |     |     |     |                          |                      |     |      |     |      |                                               |                      |     |     |     |    |                                  |                      |     |      |     |     |                                    |                      |     |      |     |     |                                |                      |     |     |     |     |                  |                      |     |     |     |     |                 |                      |     |     |     |     |                               |                      |     |    |     |    |                                               |                      |     |     |     |     |                                           |                      |     |    |     |    |                                                                            |                      |     |     |     |     |                                                               |                      |     |     |     |     |                                                                |                      |     |     |     |     |                                         |                      |     |     |     |     |                                                           |                      |                           |  |  |  |  |  |  |  |  |  |                                   |              |      |
| 142                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1280                 | 242                        | 640                  | Utility issue fee (or reissue)                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 143                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 460                  | 243                        | 230                  | Design issue fee                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |      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| 144                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 620                  | 244                        | 310                  | Plant issue fee                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |      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| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 130                  | 122                        | 130                  | Petitions to the Commissioner                                                                                                                                                                                                                                                                                                                                                                                                                                                            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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |      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| 123                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 50                   | 123                        | 50                   | Petitions related to provisional applications                                                                                                                                                                                                                                                                                                                                                                                                                                            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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |      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| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 180                  | 126                        | 180                  | Submission of Information Disclosure Stmt                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 581                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 40                   | 581                        | 40                   | Recording each patent assignment per property (times number of properties)                                                                                                                                                                                                                                                                                                                                                                                                               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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |      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| 146                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 740                  | 246                        | 370                  | Filing a submission after a final rejection (37 CFR 1.129(a))                                                                                                                                                                                                                                                                                                                                                                                                                            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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |      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| 149                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 740                  | 249                        | 370                  | For each additional invention to be examined (37 CFR 1.129(b))                                                                                                                                                                                                                                                                                                                                                                                                                           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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |                      |     |     |     |     |                                        |                      |     |     |     |     |                          |                      |     |      |     |      |                                               |                      |     |     |     |    |                                  |                      |     |      |     |     |                                    |                      |     |      |     |     |                                |                      |     |     |     |     |                  |                      |     |     |     |     |                 |                      |     |     |     |     |                               |                      |     |    |     |    |                                               |                      |     |     |     |     |                                           |                      |     |    |     |    |                                                                            |                      |     |     |     |     |                                                               |                      |     |     |     |     |                                                                |                      |     |     |     |     |                                         |                      |     |     |     |     |                                                           |                      |                           |  |  |  |  |  |  |  |  |  |                                   |              |      |
| 179                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 740                  | 279                        | 370                  | Request for Continued Examination (RCE)                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |                      |     |     |     |     |                                        |                      |     |     |     |     |                          |                      |     |      |     |      |                                               |                      |     |     |     |    |                                  |                      |     |      |     |     |                                    |                      |     |      |     |     |                                |                      |     |     |     |     |                  |                      |     |     |     |     |                 |                      |     |     |     |     |                               |                      |     |    |     |    |                                               |                      |     |     |     |     |                                           |                      |     |    |     |    |                                                                            |                      |     |     |     |     |                                                               |                      |     |     |     |     |                                                                |                      |     |     |     |     |                                         |                      |     |     |     |     |                                                           |                      |                           |  |  |  |  |  |  |  |  |  |                                   |              |      |
| 169                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 900                  | 169                        | 900                  | Request for expedited examination of a design application                                                                                                                                                                                                                                                                                                                                                                                                                                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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |      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| Other fee (specify) _____                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |                            |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      |                            |                      | *Reduced by Basic Filing Fee Paid                                                                                                                                                                                                                                                                                                                                                                                                                                                        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|                      |     |    |     |    |                                                      |                      |     |     |     |     |                           |                      |     |      |     |      |                                                 |                      |     |      |     |      |                                                        |                      |     |       |     |       |                                                     |                      |     |     |     |    |                                        |                      |     |     |     |     |                                         |                      |     |     |     |     |                                        |                      |     |      |     |     |                                         |                      |     |      |     |     |                                        |                      |     |     |     |     |                  |      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| **or number previously paid, if greater; For Reissues, see above                                                                                                                                                                                                                                                                                                                                                                                                 |                      |                            |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| SUBMITTED BY      |                                                                                      |                                   |        | Complete (if applicable) |                   |
|-------------------|--------------------------------------------------------------------------------------|-----------------------------------|--------|--------------------------|-------------------|
| Name (Print/Type) | Thomas M. Fisher                                                                     | Registration No. (Attorney/Agent) | 47,564 | Telephone                | (314) 621-5070    |
| Signature         |  |                                   |        | Date                     | February 27, 2002 |

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I certify that the attached complete utility patent application of **WILLIAM HERBERT SAHM III, STANLEY A. MISKE JR., DANIEL HERBERT BAKER, BRUCE E. ENGLISH and JOHN KERN** for **METHOD AND APPARATUS FOR DETECTING CURRENT**, including:

- Utility Patent Application Transmittal (1 pg.)
- Fee Transmittal (1 pg.) in duplicate
- Eleven (11) pages of specification; Five (5) pages of claims; One (1) page of abstract
- Four (4) sheets of drawings
- Declaration and Power of Attorney (2 pgs.) (for identification of inventors only)
- Information Disclosure Statement transmittal form (2 pgs.), in triplicate
- Form 1449 Information Disclosure Statement (1 pg.) with attachments AA-AI
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Thomas M. Fisher, Reg. No. 47,564  
Armstrong Teasdale LLP  
One Metropolitan Square, Suite 2600  
St. Louis, MO 63102-2740  
(314) 621-5070